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**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

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As a below-named inventor, Jose Arno, do hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **"INFRARED THERMOPILE DETECTOR SYSTEM FOR SEMICONDUCTOR PROCESS MONITORING AND CONTROL"**, the specification of which

(check one)    ☒ is attached hereto.  
                   ☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_  
                   ☐ and was amended \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

_____	_____	_____	Priority Claimed
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this specification is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

_____	_____	_____
(Application Number)	(Filing Date)	(Status-Patented, Pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**OLIVER A. ZITZMANN, Reg. No. 38,691**

**STEVEN J. HULTQUIST, Reg. No. 28,021**

**MARGARET CHAPPUIS, Reg. No. 45,735**

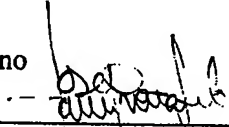
All correspondence in connection with this application should be sent to:

Oliver A. Zitzmann  
ATMI, Inc.  
7 Commerce Drive  
Danbury, CT 06810  
Telephone: (203) 794-1100

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of first inventor: Jose Arno

Inventor's Signature



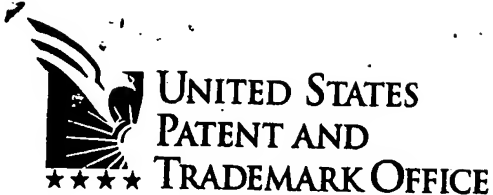
Date

5/1/02

Residence: 13 Twilight Lane, Brookfield, CT 06804

Citizenship: Spain

Post Office Address: 13 Twilight Lane, Brookfield, CT 06804



JULY 19, 2002

PTAS  
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Commissioner for Trademarks  
Arlington, VA 22202-3513  
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\*102099783A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/08/2002

REEL/FRAME: 012903/0878  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ARNO, JOSE I.

DOC DATE: 05/01/2002

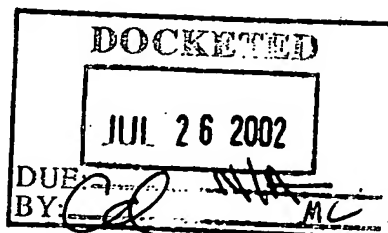
ASSIGNEE:

ADVANCED TECHNOLOGY MATERIALS,  
INC.  
7 COMMERCE DRIVE  
DANBURY, CONNECTICUT 06810

SERIAL NUMBER: 10140848  
PATENT NUMBER:

FILING DATE: 05/08/2002  
ISSUE DATE:

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



05-22-2002

## RECORDATION

Docket Number  
ATMI 567

TO THE HONORABLE COMMISSIONER



102099783

TRADEMARKS:

Please record the attached original document or copy thereof.

1. Name of conveying party (ies):

Jose I. Arno

5-8-02

2. Name and address of receiving party:

Advanced Technology Materials, Inc.  
7 Commerce Drive  
Danbury, Connecticut 06810Additional name(s) of conveying  
party (ies) attached? ☐ Yes ☒ NoAdditional name(s) and addresses  
attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_Execution Date: May 1, 2002

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the  
application is: May 1, 2002

A. Patent Application No.(s)

10,140,848

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No5. Name and address of party to whom  
correspondence concerning document  
should be mailed:Oliver A. Zitzmann  
Advanced Technology Materials, Inc.  
7 Commerce Drive  
Danbury, Connecticut 06810  
Telephone: 203-794-11007. Total Fee (37 CFR 3.41): \$ 40☐ Enclosed  
☒ Authorized to be charged to deposit  
account6. Total number of applications and patents  
involved: 18. Deposit account number:  
50-0860

05/22/2002 191A21 00000042 500860 10140848

11 FC:581

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and  
any attached copy is a true copy.*May 8, 2002

Date

  
Margaret Chappuis  
Reg. No. 45,735

1c979 U.S. PTO

10/140848



05/08/02

## ASSIGNMENT

We have made an invention described in the U.S. Patent Application entitled "INFRARED THERMOPILE DETECTOR SYSTEM FOR SEMICONDUCTOR PROCESS MONITORING AND CONTROL" which has been executed by us on the same date as this Assignment for filed in the United States Patent and Trademark Office.

We assign to Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut 06810, all of our ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (ii) U.S. Patents on the invention; and
- (iii) corresponding foreign patent applications and patents.

We are making this assignment based on our relationship with Advanced Technology Materials, Inc.

We request the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue patents on the invention to Advanced Technology Materials, Inc.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

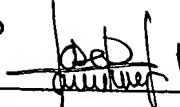
We agree that we will promptly communicate to Advanced Technology Materials, Inc. all facts that come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

We state that we have not previously taken any action in conflict with this Assignment.

Full Name of first inventor: Jose Arno

Inventor's Signature



Date

5/1/02

Residence: 13 Twilight Lane, Brookfield, CT 06804

Citizenship: Spain

Post Office Address: 13 Twilight Lane, Brookfield, CT 06804